

**AMENDMENTS TO THE CLAIMS**

1.-3. (Cancelled)

4. (Currently Amended) The detector of claim 3 28 wherein ~~the radio-frequency or~~ microwave energy is introduced into a cavity defined by an inner wall, two side walls and an outer wall, and wherein the inner wall surrounds at least a portion of the gas discharge tube.

5. - 22. (Cancelled)

23. (Currently Amended) The gas discharge detector of Claim ~~22~~ 27 wherein the gas discharge tube is no more than 10 millimeters in length.

24. (Previously Presented) The gas discharge detector of Claim 23 wherein the gas discharge tube has a diameter on the order of 1 mm.

25. (Cancelled)

26. (Cancelled)